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2
A NEW AUTOMATIC METHOD FOR THE H.F. SYNCHRONIZATION OF MEDIUM-WAVE BROADCAST TRANSMITTERS OPERATING ON A COMMON FREQUENCY.

A. K. Krasnikov
Nachrichtentechnik, Vol. 7, No. 4, 153-6 (April, 1957). In German.

The control works over a radio link and results in synchronous running to 1 part in 10^{-6} for transmitters which are independently crystal-controlled to no better than 1 part in 10^{-4} . At the local station, local and distant signals are independently subjected to frequency multiplication and division, followed by mixing with local oscillators, so as to increase the frequency difference and the percentage frequency difference. Coarse and fine discriminators drive electromagnetically controlling elements to correct the local station frequency. Correction is automatically initiated at intervals when a phase occurs in the modulation from the distant station and is completed if the phase exceeds 15 μ sec in duration.

H. G. M. Spratt

KARAMISHEV, Iv.

Total parathyroidectomy with retrograde surgical intervention on the facial nerve in surgery of mixed tumor of the parotid gland. Khirurgia, Sofia 9 no.7-8:596-599 1956.

1. Okruzhna bolnitsa--pleven Gl. lekar: R. Rusev.

(MIXED TUMORS, SALIVARY, surgery,

total parathyroidectomy with retrograde intervention on facial nerve in parotid tumor (Bul))

(PARATHYROID GLAND, surgery,

total excis. with retrograde intervention on facial nerve in parotid mixed tumor (Bul))

KARAMISHV, Iv., nachalnik

Lobectomy at the regional hospital in Pleven. Khirurgia,
Sofia 9 no.10:890-892 1956.

1. Okruzhna bolnitsa-Pleven khirurgichno otdelenie.
(PNEUMONECTOMY,
lobectomy, hosp. report (Bul))

EXCERPTA MEDICA Sec 9 Vol 13/2 Surgery Feb 59

1360. AETIOLOGY, PATHOGENESIS AND TREATMENT OF BÜRGER'S DISEASE
(Bulgarian text) - Karamishev I. - KHIRURGIYA (Sofia) 1957, 10/10 (874-880) Tables 2

Personal results obtained in 110 patients treated and observed between 1945 and 1956 are reported. In the first place some aetiological data are analysed (the influence of cold and humidity, infectious diseases, traumas of the foot etc.). In the second place the pathological changes in the vascular and nervous systems, the sympathetic ganglia and the lymphatic routes accompanying the latter, which were observed in a large number of cases, are discussed. In the third place the results of the conservative and surgical treatments are given and it is shown that the surgical results were better in these cases. Out of 53 patients who underwent lumbar sympathectomy, 26 showed good, 21 temporary and 6 bad results.

(XIX, 9)

KARAMISHEV, Iv.

Antibiotic therapy of diffuse suppurative peritonitis and its effects on the clinical picture. Khirurgia, Sofia 11 no.5-6:412-415 1958.

1. Iz Khirurgichnogo otdelenie na Okruzhnata bolnitsa--gr. Pleven.
(ANTIBIOTICS, ther. use,
peritonitis (Bul))
(PERITONITIS, ther.
antibiotics (Bul))

KARAMISHEV, Iv.

Prevention and dispensary services in thrombeangitis obliterans.
Khirurgia, Sofia 11 no.5-6:531-533 1958.

1. Iz Khirurgichnogo otdelenie na Okruzhnata bolnitsa--Pleven.
(THROMBOANGITIS OBLITERANS,
prev. & ther. (Bul))

KARAMISHEV, I.; KARAVASILEV, T.

Surgical therapy of diseases of the thyroid. Khirurgiia, Sofia 11 no.8:
716-722 1958.

1. Okruzhna bolnitsa - gr. pleven G. Iakar: R. Rusev.
(THYROID GLAND, dis.
surg. (Bul))

KARAMISHEV, I.

A case of echinococcosis of the head of the pancreas compressing the common bile duct. Khirurgia, Sofia 13 no.2-3:193-194 '60.

1. Iz khirurgichnogo otdeleniia pri Okruzhnata bolnitsa - Pleven.
(BILE DUCTS dis.)
(PANCREAS dis.)
(ECHINOCOCCOSIS surg.)

KARAMISHEV, I.; TONCHEV, P.; PASHOV, M.

A case of cardiac wound and of chronic adhesive pericarditis.
Khirurgiia, Sofia 14 no.2/3:233-235 '61.

1. Khirurgichno otdelenie pri Okruzhnata bolnitsa, Pleven.

(HEART wds & inj) (PERICARDITIS case reports)

KARAMISHEV, Iv.; ILIEV, P.

On acute mesenterial lymphadenitis. Khirurgia (Sofia) 15 no.1:48-52
'62.

1. Okruzhna bolnitsa, Pleven. Gl. lekar: R. Rusev.

(LYMPHADENITIS diag) (MESENTERY dis)

KARAMISHEV, Iv.; TENCHEV, P.; VRABEVSKI, St.

Contribution to the problem of Meckel's diverticulum as a cause of acute surgical diseases of the abdomen. Khirurgia (Sofia) 14 no.12: 1073-1079 '61.

1. Okružna bolnitsa, Pleven Gl. lekar: R. Rusev.

(MECKEL'S DIVERTICULUM diag)
(ABDOMEN ACUTE diag)

KARAMISHEV, Iv.; SMOLIANOV, K.

Cases of multiple sharp bodies in the gastrointestinal system.
Khirurgia 15 no.5/6:550-553 '62.

1. Iz khirurgichnogo i rentgenovogo otdelenie na Okruzhna
bolnitsa - Pleven.
(GASTROINTESTINAL SYSTEM for bodies)

KARAMISHEV, Iv.; MARKOV, P.

Experience of the surgical ward of the regional hospital in
Plaven in the treatment of burns. Khirurgia 15 no.9/10:
809-810 '62.

(BURNS)

KARAMISHEV, Iv.

Pulmonary echinococcosis in a child. Khirurgia 15 no.9/10:
920-922 '62.

1. Iz khirurgichnogo otdelenie na Okruzhnata bolnitsa - Pleven.
(ECHINOCOCCOSIS PULMONARY)

KARAMISHEV, Iv.

A case of large retroperitoneal teratoma in a 4-month-old infant. Khirurgia 15 no.11:994 '62.

1. Iz khirurgichnogo otdelenie na Okruzhnata bolnitsa - Pleven.
(RETROPERITONEAL NEOPLASMS) (TERATOID TUMOR)

KARAMISHEV, Iv., dots.; GEORGIEV, G.; POPOV, M.

A rare case of hydatid choleperitoneum. Khirurgia (Sofia) 16
no.11:1031-1033 '63.

1. Iz khirurgichnogo otdelenie pri Okrushnata bolnitsa, Pleven.

KARAIKISHEV, Iy. dozent; ILEEV, P.; SHPIKEROVA, P.

"Treatment of open body injuries in the surgical department
of the Pleven Regional Hospital. Khirurgiia 17 no.2:136-138 '64.

L 23091-65 FSP(h)/EWT(1)/FS(v)-3/EEC(k)-2/EWA(d) Page-2 GW

ACCESSION NR: AP4047830

Z/0002/64/000/004/0693/0597

AUTHOR: Karamitov, I.

TITLE: Conference of representatives of the academies of science of the socialist countries

SOURCE: Ceskoslovenska akademie ved. Vestnik, no. 4, 1964, 693-697

TOPIC TAGS: international scientific conference, international collaboration, scientific problem, artificial earth satellite, international

ABSTRACT: The article reports on the third conference of the Soviet-bloc academies of sciences, convened at the invitation of the Bulgarian Academy of Sciences, in Sofia, Bulgaria, from 14 to 20 April 1964. Participating in this conference were representatives of the Bulgarian, Hungarian, Mongolian, Rumanian, East German, Polish, and Czechoslovak Academies of Sciences. The Czechoslovak delegation was headed by the Scientific Secretary of the Academy, Corresponding member Jaroslav Pluhar. A representative of the RVHP State Commission for the coordination of scientific and technical research was also present as an observer. The conference turned its attention principally to the evaluation of what has been done in the

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L 23091-65

ACCESSION NR: AP4047830

field of multilateral collaboration and confirmed the success of the latter. International problem commissions in which outstanding scientists of the academies concerned participated had been set up for the eight scientific problems which had been chosen for multilateral collaboration at the previous conference. The fields for international collaboration discussed included the observation of artificial earth satellites. In its conclusions the conference stressed the importance of the participation of the academies of the socialist countries in the activities of international scientific organizations and proposed several concrete measures toward that end. The proposal of the Academy of Sciences of the USSR that the Fourth Conference of Academies take place in Moscow in 1965 was accepted by all participants.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: 60

NO REF SOV: 000

OTHER: 000

Card 2/2

VINOGRADOVA, I.E.; PETYAKINA, Ye.I.; KARAMNOVA, V.P.

Optimum concentration of sulfur and chlorine components in some
sulfur-chlorine antiseizing additives to lubricating oils. Tren.1
izn.mash. no.15:478-485 '62. (MIRA 15:4)
(Lubrication and lubricants--Testing)

KARAMOCHEV, R.

AGRICULTURE

Periodical: OTCHETNOST I KONTROL NA SELSKOTO STOPANSTVO. Vol. 3, No. 7, 1958.

KARAMOCHEV, R. Accounting for the spare parts and materials for repair; the experience of Machine-Tractor Station in the Village of Trust-enik, Pleven Okoliya. p. 294.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 2
February 1959, unclass

KARAMOLIEV, R.

USSR / Farm Animals. Cattle.

Q-2

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54719.

Author : Karamoliyev, R. Kh.

Inst : Not given.

Title : The Proteins and Cholesterol-Protein Complexes
of the Blood of High-Producing Pregnant Cows.

Orig : Tr. Mosk. vet. akad., 1957, 21, 50-59.

Abstract: No abstract:

Card 1/1

TSYS', P.N.; KALESNIK, S.V.; SOKOLOV, N.N.; CHOCHIA, N.S.; PROTOPOPOV, A.P.; ZABELIN, I.M.; GVOZDZETSKIY, N.A.; YEFREMOV, Yu.K.; KARA-MOSKO, A.S.; KOZLOV, I.V.; SOLNTSEV, N.A.; ISACHENKO, A.G.; ARMAND, D.L.; MIROSHNICHENKO, V.P.; PETROV, K.M.; KAZAKOVA, O.N.; MIKHAYLOV, N.I.; PARMUZIN, Yu.P.; GERENCHUK, K.I.; MIL'KOV, F.N.; TARASOV, F.V.; NIKOLAYEV, V.N.; SOBOLEV, L.N.; RYBIN, N.N.; DUMIN, B.Ya.; IGNAT'YEV, G.M.; MEL'KHEYEV, M.N.; SANEBLIDZE, M.S.; VASIL'YEVA, I.V.; PEREVALOV, V.A.; BASALIKAS, A.B.

Discussion at the conference on studying land forms. Nauk. zap. L'viv. un., 40:231-267 '57. (MIRA 11:6)

1. L'vovskiy gosudarstvennyy universitet (for TSys', Gerenchuk, Dumin).
2. Laboratoriya aerometodov AN SSSR, Leningrad (for Sokolov, Miroshnichenko, Petrov).
3. Institut geografii AN SSSR, Moskva (for Armand, Sobolev).
4. Gosudarstvennyy universitet, Voronezh (for Mil'kov, Tarasov).
5. Leningradskiy gosudarstvennyy universitet (for Chochia, Isachenko, Kazakova).
6. Komissiya okhrany prirody AN SSSR, Moskva (for Protopopov).
7. Gosudarstvennyy universitet, Chernovtsy (for Rybin).
8. Gosudarstvennyy universitet, Irkutsk (for Mel'kheyev).
9. Gosudarstvennyy pedagogicheskiy institut im. V.I. Lenina, Moskva (for Vasil'yeva).
10. Bol'shaya Sovetskaya Entsiklopediya (for Zabelin).
11. Gosudarstvennyy universitet, Tbilisi (for Saneblidze).
12. Moskovskiy gosudarstvennyy universitet (for Gvozdetskiy, Solntsev, Mikhaylov, Parmuzin, Nikolayev, Ignat'yev).
13. Torgovo-ekonomicheskii institut, L'vov (for Perevalov).
14. Gosudarstvennyy institut im. Kapsukasa, Vil'nyus (for Basalikas).
15. Muzei zemlevedeniya Moskovskogo gosudarstvennogo universiteta (for Yefremov, Kozlov).
16. Srednyaya shkola No.13, Kiyev (for Kara-Mosko). (Physical geography)

ZHIVKOV, V.; KARAMOUCHEVA, L.

On the composition and content of acid-soluble nucleotides in the kidney of rats. Doklady DAN 17 no.12:1115-1116 '64.

1. Institute of Comparative Pathology of Animals of the Bulgarian Academy of Sciences, Sofia. Submitted July 29, 1964.

ABDULLAYEV, G.I., kand. med. nauk; KARAMOV, K.S., kand. med. nauk;
GUSEYNOV, I.A., kand. med. nauk; GADZHIYEV, A.A.;
FATALIYEVA, V.G.; MUSTAFAYEV, R.A.; BAGIROV, A.M.

Some problems in the diagnosis of stenosis of the left
atrioventricular orifice and indications for mitral commissu-
rotomy. Azerb. med. zhur. 41 no.9:8-16. S '64.

(MIRA 18:11)

1. Iz otdela grudnoy khirurgii Instituta eksperimental'noy
i klinicheskoy meditsiny AMN SSSR (dir. - chlen-korrespondent
AN AzSSR prof. Efendiyev, F.A. [deceased]) i iz kafedry
propedevtiki vnutrennikh bolezney 1-go (sav. - prof. G.Kh.
Baysheva-Zeynalova) Azerbaydzhanskogo meditsinskogo instituta
imeni Narimanova (rektor - prof. Kh.A. Gasanov).

KARAMOV, K.S., kand. med. nauk (Baku)

Simplification of some computations in the analysis of electro-
cardiograms. Sov. med. 27 no.10:101 0 '63. (MIRA 17:6)

KARIMOV, K.S., [uncl.med.rank]

Contractile function of the myocardium in clinical stenotic valvula
and following surgical treatment. Sov.med. 28 no.136-40 Apr '66.
(MIRA 1446)

1. Azerbaydzhanskiy institut eksperimental'noy i klinicheskoy
meditsiny (dir. - shlen-korrespondent AN Azerbaydzhanskoy SSR
prof. F.A.Mendiyev [nepoznail]) AMN SSSR, Baku.

KARAMOV, K. S., ITKIN, A. A. and GUSMAN, S. M.

"Case of Defect in the Aortal Valves of Traumatic Origin" - p. 37

Voyenno Meditsinskiy Zhurnal, No. 10, 1962

KARAMOV, A. Ye.

Intensify the propagation of problems in mensuration and standardi-
zation. Izv. tekhn. no. 11:53-54 N '60. (MIRA 13:11)
(Mensuration) (Standardization)

KARAMOV, A.Ye.

Courses for the improvement of qualifications. Izv.tekh.
no.1:60-61 Ja '62. (MIRA 14:12)
(Azerbaijan--Technical education)

KARAMSHUK, Z.P.

Microbiological activity in calcareous Chernozem soils of
TSelinograd Province in the early spring. Izv. AN Kazakh.
SSR. Ser. biol. nauk 2 no.6:3-8 N-D '64. (MIRA 18:3)

KARAMULLIN, S. A.

"Method for Determining Electric Conductivity of Slag Melts and Changes in Its Magnitude for Certain Slags".
Sb. Nauch. Tr. Kazakhsk. Gorno-Metallurgich. In-ta, No. 8, pp 266-272, 1953.

Electric conductivity was determined using a device having two platinum electrodes spaced 15 mm apart and immersed 3 mm into the slag. The slags were melted in an alundum crucible and the temperature determined with a Pt-PtRb thermocouple. Lists conductivity data of slags from copper and lead concentrates. (RZhKhim, No 4, 1955)

SO: Sum No 884, 9 Apr 1956

KH KARAMULLIN, S.H.

AVETISYAN, Kh.K., professor, doktor; KARAMULLIN, S.A., kandidat tekhn.nauk.

Investigation of lamination in the system: copper-iron-sulfur.
TSvet.met. 26 no.4:20-26 J1-Ag '53. (MIRA 10:10)
(Metallography)

KARA-MURZA, E. N.: Doc Geolog-Mineralo Sci (diss) -- "Palinological basis of stratigraphic differentiation of the Ust'-Yenisey and Khatanga depressions". Leningrad, 1958. 36 pp (Min Geology and Protection of Natural Resources USSR, All-Union Sci Res Geology Inst VSEGEI), 150 copies (KL, No 2, 1959, 118)

BOLKHOVITINA, N.A.; ZAKLINSKAYA, Ye.D.; ~~KARA~~MURZA, E.N.; LYUBER, A.A.;
MARKOVA, L.G.; NAUMOVA, S.N.; POKROVSKAYA, I.M.; SAMOYLOVICH,
S.R.

Preparation of the Interdepartmental Conference on the Taxonomy
and Nomenclature of Fossil Spores and Pollen. Paleont. zhur.
no.3:130-135 '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut.
(Palynology--Congresses)

KARA-MURZA, Evelina Nikitichna; SHVEDOV, N.A., kand.geol.-mineral. nauk,
red.; SHVEDOV, N.A., nauchn.red.; DAYEV, G.A., vedushchiy red.;
YASHCHURZHINSKAYA, A.B., tekhn.red.

[Palynological basis for stratigraphic correlation of Mesozoic
sediments in the Khatanga Depression] Palinologicheskoe
obosnovanie stratigraficheskogo raschleneniia mezoziskikh
otlozhenii Katangskoi vpadiny. Leningrad, Gos.nauchn-tekhn.izd-
vo nefti i gorno-toplivnoi lit - ry. Leningr. otd-nie, 1960. 134
p. (Leningrad. Nauchno-issledovatel'skii institut geologii arktiki.
Trudy, vol. 109) (MIRA 13:12)
(Khatanga Depression—Geology, Stratigraphic)
(Palynology)

KARA-MURZA, ^{E.}YE.N.

"Spore and pollen complexes of the lower Paleozoic, Mesozoic and Cenozoic divisions of northern Siberia and their stratigraphic value."

"Spore and pollen complexes of the Triassic divisions and their value for correlation of marine, continental and volcanic sediments."

Reports to be submitted for the Intl. Conf. on Palynology
Tucson, Arizona. 23-27 Apr '62.

Geologic Inst. for the Arctic Regions, Leningrad.

KOCHETKOV, N.K.; DEREVITSKAYA, V.A.; LIKHOSHERSTOV, L.M.; ~~KARA-MURZA~~, S.G.

Glycopeptides. Part 1: Synthesis of 6-O-glycyl-glucose and
6-O-(D,L-alanyl)-glucose. Zhur.ob.khim. 32 no.4:1159-1166
Ap '62. (MIRA 15:4)

1. Institut khimii prirodnikh soedineniy AN SSSR.
(Glycopeptides)

NIFANT'YEV, E.Ye.; GRACHEV, M.A.; BAKINOVSKIY, L.V.; KARA-MURZA, S.G.;
KOCHETKOV, N.K.

Synthesis of methyl ~~2~~-chlorovinyl ketone. Zhur.prikl.khim. 36 no.3:
676-678 My '63. (MIRA 16:5)
(Ketone) (Vinyl compounds)

KOCHETKOV, N.K.; KARA-MURZA, S.G.; DEREVITSKAYA, V.A.

Structure of the blood group substances. Hydroxylaminolysis of the blood group substance A and the general structure of the biopolymer. Dokl. AN SSSR 153 no.6:1338-1341 D '63.
(MIRA 17:1)

1. Institut khimii prirodnikh soedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).

DEREVITSKAYA, V.A.; KARA-MURZA, S.G.; KOCHETKOV, N.K.

Structure of group substances of blood; alkaline hydrolysis of the
A + H blood group substance. Dokl. AN SSSR 163 no.3:650-653 J1 '65.

(MIRA 18:7)

1. Institut khimii prirodnikh soedineniy AN SSSR. 2. Chlen-korrespondent
AN SSSR (for Kochetkov).

SHCHUKINA, L.A.; KARA-MURZA, S.N.; VDOVINA, R.G.

Synthesis of O-peptides with the aid of N,N'-dicyclohexyl-carbodiimide. Zhur.ob.khim. 29 no.1:340 Ja '59. (MIRA 12:4)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR.
(Carbodiimide) (Peptides)

AVAYEVA, S.M.; BOTVINIK, M.M.; KARA-MURZA, S.N.

Enzymatic synthesis of benzoyl-phenylalanine peptides through
serine and threonine O-peptides. Vop.med.khim. 5 no.2:102-
106 Mr-Apr '59. (MIRA 12:5)

1. The "N.D.Zelinskiy" Laboratory for Protein Chemistry,
Moscow State University.

(PEPTIDES,

: synthesis of benzoyl-phenylalanine peptides
with serine & threonine O-peptides (Rus))

(PHENYLALANINE,

same)

(AMINO ACIDS,

same)

SHCHUKINA, L.A.; KARA-MURZA, S.N.; GROMOVA, G.F.

New method of preparing β -aminoacyl derivatives of cysteine peptides. Dokl. AN SSSR 136 no.6:1351-1353 F '61. (MIRA 14:3)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR. Predstavleno akademikom M. M. Shemyakinym.
(Cysteine)

BOTVINIK, M. M.; KARA-MURZA, S. N.; AVAYEVA, S. M.; NIKITIN, V. Ya.

Infrared spectroscopy study of the mechanism underlying the formation of p-nitrophenyl esters of benzoyl amino acids and acyl peptides by the carbodiimide method. Dokl. AN SSSR 156 no. 1:88-91 My '64. (MIRA 17:5)

1. Moskovskiy gosudarstvennyy univeristat. Predstavleno akademikom A. N. Nesmeyanovym.

11112-07 EWP(M)/EWP(J) RM

ACC NR: AP7003669

SOURCE CODE: UR/0019/66/036/008/1509/1510

AUTHOR: Avayeva, S. M.; Kara-Murza, S. H.; Botvinik, M. M.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Synthesis of o-pyrophospho-D,L-serine and glycyl-o-pyrophospho-D,L-serine

SOURCE: Zhurnal obshchey khimii v. 36, no. 8, 1966, 1509-1510

TOPIC TAGS: organic synthetic process, phosphorylation, pyridine, chromatography

ABSTRACT: Two methods of synthesizing serine pyrophosphates were developed:

carbodiimide and acid chloride methods. In both cases benzyl esters of N-carbobenzoxy- and N-carbobenzoylglycyl-O-benzylphospho-D,L-serine were the starting materials. In the carbodiimide method, the reaction was conducted in acetone at room temperature, with a fivefold excess of the dibenzylphosphoric acid and a tenfold excess of N,N'-dicyclohexylcarbodiimide. In the acid chloride method, phosphorylation was carried out at -40°, with a sixfold excess of dibenzyl chlorophosphate in acetone in the presence of an amount of pyridine equimolar to the chlorophosphate. Ion-exchange chromatography on the resin Dowex 1 x 2 was used to separate the reaction products. The yields of the serine pyrophosphates were 40-50% in the carbodiimide method and 60-70% in the acid chloride method. [JPRS: 38,970]

SUB CODE: 07 / SUBM DATE: 27Jan66 / ORIG REF: 003 / OTH REF: 002

UDC: 547.466

Card 1/1 jb

0926 0299

USSR/Farm Animals - Small Horned Cattle:

Q-3

Abs Jour : Ref Zhur - Biol., No 18, 1958, 83419

Author : Tyupin, A.V., Karamushka, A.P.

Inst :

Title : Directional Raising of Pedigree Ram Sires at the Kolkhoz
Farms of Zimovnikov GPR

Orig Pub : Ovtsovodstvo, 1957, No 8, 25-28.

Abstract : No abstract.

Card 1/1

- 55 -

FAYVUSHEVICH, Vladimir Mikhaylovich; KOVAL', Nikolay Andreyevich;
VERETE, Arnol'd Grigor'yevich; LALAYEV, Georgiy Georgiyevich;
KARAMUSHKO, F.D., retsenzent; SHADRIN, Ye.V., retsenzent;
LUBOCHKIN, B.I., red.; SANDLER, N.V., red.izd-va; KOTLYAKOVA,
O.I., tekhn.red.

[Boiler operator's manual] Uchebnik kotel'nogo mashinista. Le-
ningrad, 1^{zd-vo} "Morskoi transport," 1962. 505 p.
(MIRA 15:11)

(Boilers, Marine--Handbooks, manuals, etc.)

KARAMUSHKO, R. I.
Solid State Physics

Dissertation: "An Investigation of the Binding Properties of Materials in Vitreous and Crystalline States." Cand Tech Sci, Leningrad Technological Inst, Leningrad, 1953. (Referativnyi Zhurnal -- Fizika Moscow, Mar 54)

SO: SUM 213, 20 Sep 1954

L 25076-65 EWT(1)/EPA(s)-2/EWT(π)/EWP(e)/EPF(n)-2/EPA(w)-2/SEC(1)/EWP(1)

ACCESSION NR: AP5003429 Pab-10/Pt-10/Pu-4/Pl-4

S/0181/65/007/001/001/001

IJP(c) OG/WH

AUTHOR: Stekhanov, A. I.; Karamyan, A. A.; Astaf'yev, N. I.

TITLE: Infrared absorption spectra of ferroelectric crystals of the perovskite type

SOURCE: Fizika tverdogo tela, v. 7, no. 1, 1965, 157-160

TOPIC TAGS: absorption spectrum, ir absorption spectrum, ferroelectric crystal, perovskite, titanate, group theory

ABSTRACT: In view of the incomplete and contradictory nature of results obtained to date on the infrared spectrum of ferroelectric crystals, the authors investigated the infrared absorption spectra of BaTiO_3 , PbTiO_3 and CaTiO_3 at wavelengths 2-300 μ . A Beckman IR spectrophotometer was used for the 2-10 μ range, and a long-wave spectrometer for the longer waves. The tests were made at room temperature on single-crystal samples and also on powders pressed in polyethylene. Single-crystal barium titanate (thickness 200 μ) was transparent in the 1,500 cm^{-1} frequency range, and at lower frequencies weak absorption bands were

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L 25076-65

ACCESSION NR: AP5003429

observed. Two broad and intense absorption bands were observed, centered near 550 and 360 cm^{-1} . Each band had a pronounced triplet structure, with components at 635, 545, 530 and 420, 355, 310 cm^{-1} respectively. In the far infrared an absorption band was observed at 140 cm^{-1} . The spectra of PbTiO_3 (monoclinic) showed bands at 400 and 600 cm^{-1} with pronounced triplet structure. In the Raman spectra bands were observed at 170 and 110 cm^{-1} . The results of the infrared and Raman spectra analysis are presented. The infrared and Raman spectra in order to obtain complete information on the structure of such crystals. Orig. art. has: 3 figures and 1 table.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad
(Physicotechnical Institute, AN SSSR)

NR REF SOV: 004

OTHER: 007

Cord 2/2

KARAMYAN, A.A.

USSR

539.166.08

8604. A. γ -spectrometer with improved focusing.
B. S. DZHELEPOV, N. N. ZIRUKOVSKI, A. A. KARAM-
YAN AND S. S. SHESTOPALOVA. *Izv. Akad. Nauk*
SSSR, Ser. Fiz., 17, No. 4, 318-20 (1953) In
Russian.

Improved focusing in a spectrometer of the type of
Abstr. 3377 (1950) and 6433 (1951) achieved by using
an inhomogeneous magnetic field was tested by deter-
mining the characteristics of the 1.17 and 1.33 MeV
lines of the Co^{60} spectrum.

W. J. SWIATECK

10mL 20H

✓ KARALYAN, A.A., Cand Geol-Min Sci— (diss) " *Flooding beyond the contours*
of the ~~PK₁~~ ^(levels) and PK₂ of the southeast block of ^{the} Surakhyan deposits." ^{Surakhyan}
Baku, Publishing House of the Azerb State U, 1958. 18 pp (Acad Sci AzSSR.
Inst of Geology, im Acad I.M. Gubkin), 150 copies (KL, 46-58, 139)

-21-

KARAMYAN, A.A.

Some unsolved problems relative to the edge-water encroachment of
the Sub-Kirmaki series in the Surakhany area. Azerb. neft. khoz.
37 no.2:32-35 F '58. (MIRA 11:6)
(Apsheiron Peninsula—Oil field flooding)

KARAMYAN, A.A.

Hydraulic fracturing of the Sub-Kirmaki series as a means for
increasing the holding capacity of injection wells, Azerb. neft.
khoz. 37 no.5:26-28 My '58. (MIRA 11:8)
(Apscheron Peninsula—Oil field flooding)
(Oil wells—Hydraulic fracturing)

KARAMYAN, A.A.; OBNATANOV, S.T.; TAMRAZIAN, G.P.

Characteristics of petroleum, gas, and water in the Kala series
of the Gousan field. Azerb.neft.khoz. 37 no.6:7-10 Je '59.
(MIRA 13:4)
(Apshehon Peninsula--Petroleum geology)

L 31174-66 EWT(1)/T IJP(c) GG
ACC NR: AP6006828

SOURCE CODE: UR/0181/66/008/002/0448/0450

AUTHOR: Stekhanov, A. I.; Karamyan, A. A.

ORG: Physicotechnical Institute im. A. F. Ioffe AN SSSR, Leningrad (Fiziko-tekh-
nicheskii institut AN SSSR)

TITLE: Analysis of the infrared absorption spectrum for single crystals of the
perovskite type

SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 448-450

TOPIC TAGS: IR absorption, absorption spectrum, titanate, barium titanate,
strontium compound, calcium compound, single crystal, Curie point

ABSTRACT: This paper is a continuation of a previous study on the spectral proper-
ties of calcium titanate crystals. The absorption spectra of barium, strontium and
calcium titanate crystals are studied in the $5000-700\text{ cm}^{-1}$ range at 295 and 77°K.
The infrared spectrum of the barium titanate crystal was also studied at tempera-
tures above the Curie point (393°K). An analysis of the absorption curves shows
that all three types of perovskite have a complex spectrum consisting of a whole

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L 31174-66

ACC NR: AP6006828

series of absorption bands in the $2000-900\text{ cm}^{-1}$ range. Calcium titanate shows the most complex spectrum. The most intense absorption maximum for BaTiO_3 is located at about 1255 cm^{-1} while that for SrTiO_3 and CaTiO_3 is at approximately 1335 cm^{-1} . The remaining bands in all three spectra are much less intense. All three crystals are transparent in the $5000-2000\text{ cm}^{-1}$ region. All absorption bands become sharper at nitrogen temperatures, especially for the calcium titanate crystal. The maximum at 1255 cm^{-1} in barium titanate shifts toward higher frequencies by $10-12\text{ cm}^{-1}$ at low temperatures. When barium titanate is heated past the Curie temperature, there is a considerable reduction in the low frequency region beginning at 1100 cm^{-1} . An extremely wide band appears at about 960 cm^{-1} . The experimentally observed phenomena are theoretically explained. Orig. art. has: 2 figures, 1 table.

SUB CODE: 20/

SUBM DATE: 14Jul65/

ORIG REF: 003/

OTH REF: 002

Card 2/2 *IC*

STEKHANOV, A.I.; KARAMYAN, A.A.; ASTAF'YEV, N.I.

Infrared absorption spectra of perovskite type ferroelectric crystals. Fiz. tver. tela 7 no.1:157-160 Ja '65.

(MIRA 18:3)

1. Fiziko-tekhnicheskiy institut imeni Ioffe AN SSSR, Leningrad.

KARAMYAN, A. I.

"The Cortex of the Cerebral Hemispheres of the Prosencephalon and the Vegetative Functions of the Organism," *Fiziol. zhur.*, 34, No.1, 1948

Dept. Physiol. of Central Nervous System, Inst. Brain im. Bekhterov, Leningrad

KARAMYAN, A. I.

"Evolution of Functional Interrelationships between the Cerebellum and the Hemispheres of the Spinal Cord: I. The Functional Interrelationship between the Cerebellum and Frontal Brain in Bony Fish," Fiziol. zhur. SSSR, 35, No.2, 1949

Physiol. Inst. im. I. P. Pavlov, AS USSR

KARAMYAN, A.I.

Certain problems of evolution of physiology according to the Pavlovian theory. *Fiziol. zh. SSSR* 39 no. 1:107-116 Jan-Feb 1953. (CML 24:2)

1. Department of the Comparative Physiology and Pathology of Higher Nervous Activity of the Institute of Experimental Medicine of the Academy of Medical Sciences USSR.

KARAMYAN, A.I.

Peculiarities of pathology of the higher nervous function in lower vertebrates. Fiziol. zh. SSSR 39 no.5:561-570 Sept-Oct 1953.

(GIML 25:4)

1. Department of the Comparative Physiology and Pathology of Higher Nervous Activity of the Institute of Experimental Medicine of the Academy of Medical Sciences USSR, Leningrad.

KARAMYAN, A. I.

[Evolution of the functions of the cerebellum and the cerebral
hemispheres] *Evoliutsiia funktsii mozghechka i bol'shikh polushariy*
bolovnogo mozga. [Leningrad] Medgiz, 1956. 186 p. (MIRA 10:3)
(BRAIN)

KARAMYAN, A.I.

KARAMYAN, A.I., doktor meditsinskikh nauk.

Evolutionary physiology of the nervous system; conference in
Leningrad. Vest.AN SSSR 26 no.8:119-122 Ag '56. (MIRA 9:9)
(NERVOUS SYSTEM)

KARAMYAN, A. I., Dr. Medical Sci.

"The Evolution of the Functions of the Cerebellum and the Great Hemispheres of the Cerebrum,"

for this work the author was awarded the Prize imeni I. P. Pavlov, by the Acad. Sci. USSR, 1957.

Priroda, 1958, No. 2, p. 113-114

USSR / Human and Animal Physiology (Normal and Pathological).
Comparative Physiology.

T-2

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 59972

Author : Karanyan, A. I.

Inst : AS USSR

Title : Several Morphophysiological Evolutionary Mechanisms
in Higher Departments of the Central Nervous System in
Vertebrates

Orig Pub : Materialy po evolyuts. fiziol. T. 2, M.-L., AN SSSR,
1957, 86-101

Abstract : The conditioned reflexes (CS) in fish were easily pro-
duced, but they were very unstable; possibly they are of
the summation reflex type. In amphibians, the CR were
produced with difficulty and were unstable. In birds
it was possible to produce all forms of inner inhibition,
but they were unstable. Defensive CR towards sound were

Card 1/3

8

USSR / Human and Animal Physiology (Normal and Pathological).
Comparative Physiology.

T-2

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720610002-3"

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 59972

produced with greater difficulty in rodents than in
birds. In fish, light irritation produced only a reaction
in the visual parts and cerebellum (C), and in birds,
in the large hemispheres (IH). The removal of C in fish
led to the extinction of the old CR and an inability to
produce new ones, and to death within 2 - 3 weeks due to
the impairment of essential life functions; in amphibians
they were preserved, and new CR were produced rapidly,
but there appeared weak motor disorders which were
difficult to compensate; in pigeons the CR were not
damaged, but the birds died soon, due to motor, sensory
and trophic impairments; in rats, the skin reflexes
changed sharply, and in cats it became difficult to
produce inhibitory CR (35 - 40 attempts as compared to
the normal 3 - 4). The removal of the IH in amphibians

Card 2/3

USSR / Human and Animal Physiology (Normal and Pathological).
Comparative Physiology.

T-2

KARAMYAN, A.I.

Effect of extracortical factors on the reflex activity of the
cerebral cortex. Izv.AN Arm.SSR. Biol.i sel'khoz.nauki 10 no.7:27-37
Jl '57. (MIRA 10:10)

1. Institut eksperimental'noy meditsiny AMN SSSR, Leningrad.
(CEREBRAL CORTEX) (CONDITIONED RESPONSE)

KARAMYAN, A.I.

BIRYUKOV, Dmitriy Andreyevich, prof.,otv. red.; VOYNO-YASENETSKIY, A.V., red.;
ZHUKOV, Ye.K., red.; KARAMYAN, A.I., red.; KREPS, Ye.M., red.;
PAVLOV, B.V., red.; VEDYAYEV, F.P., red.; RULEVA, M.S., tekhn. red.

[Evolution of the functions of the nervous system] Evolutsiia
funktsii nervnoi sistemy.[Leningrad] Gos. izd-vo med. lit-ry,
Leningr. otd-nie, 1958. 287 p. (MIRA 11:12)

1. Chlen-korrespondent Akademiya meditsinskikh nauk SSSR(for Biryukov).
(NERVOUS SYSTEM)

KARAMYAN A. I.
 EXCERPTA MEDICA Sec 3 Vol 13/5 Endocrinology May 59

977. INFLUENCE OF THE SYMPATHICO-ADRENAL SYSTEM UPON REFLEX
 ACTIVITY AT HIGHER LEVELS OF THE CENTRAL NERVOUS SYSTEM
 (Russian text) - Karamian A. I. Dept. of Comp. Physiol. and Pathol.,
 Inst. of Exp. Med., Leningrad - FIZIOL. ZH. SSSR 1958, 44/4 (305-326)
 Illus. 5

Removal of upper cervical sympathetic ganglia in rabbits is followed by a sharp
 reduction of intensity, or total disappearance of established positive food-con-
 ditioned motor reflexes. These effects are accompanied by alteration of cortical
 electrical activity: lower voltage, disappearance of slow waves of 3-6 c. p. s. fre-
 quency, and absence of the depression effect in response to external stimulation.
 Following unilateral removal of an upper cervical ganglion, these changes are
 more marked in the cortex of the ipsilateral hemisphere. After removal of cervic-
 al sympathetic ganglia, followed by adrenal demedullation, the voltage of the
 EEG becomes unstable, volleys of extremely high waves are followed by periods
 of very low voltage activity, and the depression effect of sensory stimuli is abolish-
 ed. S. c. injection of adrenaline in desympathized rabbits produces a transient
 appearance of normal electrical activity of the cortex, increases the intensity of
 conditioned excitation and of internal inhibition; in desympathized and demedullized
 animals, it abolishes the periodic changes of cortical electrical activity.

Simonson - Minneapolis, Minn. (II, 3)

Otdel sravnitel'noy fiziologii i patologii Instituta eksperimental'noy
 meditsiny ~~AMP~~ SSSR, Leningrad

USSR/Human and Animal Physiology (Normal and Pathological)
Nervous System. Vegetative Nervous System.

T

Abs Jour : Ref Zhur Biol., No 6, 1959, 27022

Author : Karamyan, A.I.

Inst :

Title : The Influence of the Sympatho-Adrenal System on Reflex
Activity of Higher Parts of the Central Nervous System.

Orig Pub : Fiziol. zh. SSSR, 1958, 44, No 4, 316-326

Abstract : After removal of superior cervical sympathetic ganglia, considerable weakening of conditioned (CR) and unconditioned reflexes, disappearance of alpha-like rhythms on EEG as well as inertia of reactions to external stimulus were observed in rabbits. After combined extirpation of upper cervical ganglia and medullary substance of adrenals, periodicity in electrical activity was noted on EEG at the time when removal of medullary substance of adrenals only did not cause an essential influence on

Card 1/2

- 109 -

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720610002-3"

USSR/Human and Animal Physiology (Normal and Pathological)
Nervous System. Vegetative Nervous System.

T

Abs Jour : Ref Zhur Biol., No 6, 1959, 27022

EEG. In another part of experiments, intravenous introduction of 0.1% solution of adrenalin (I) to intact animals (rabbits, pigeons) did not induce noticeable changes of CR and EEG. In desympathised animals, after introduction of I, restoration of the background of electrical activity up to nearly normal was observed. CR in the first 2-5 sec after introduction of I were inhibited and then increased sharply. The data obtained confirms the concept of a sensitizing influence of sympathetic nervous system on electrical activity of cerebral cortex and CR. -- S.B. Aronova

Card 2/2

BIRYUKOV, D.A., VEDYAYEV, F.P., ZAGORUL'KO, T.M., KARAMYAN, A.I.

Substantial contribution to the development of comparative
physiology ("Principles of comparative physiology: Comparative physiology
of the nervous system" by Kh.S. Koshtolianets. Reviewed by D.A. Biriukov
and others. Fiziol.zhur. 44 no.6:595-598 Je '58 (MIRA 11:7)
(NERVOUS SYSTEM)
(KOSHTOLIANETS, Kh.S.)

KARAMYAN, A.I. (Leningrad)

Problems in the mechanisms of formation of temporary connections;
third symposium at Gagra. Fiziol.zhur. 44 no.6:599-603 Je '58
(MIRA 11:7)

(CONDITIONED RESPONSE)

KARAMYAN, A.I., doktor med.nauk

Physiology and pathology of the higher parts of the central nervous system in fishes. Trudy sov.Ikht.kom. no.8:58-68 ' 58.
(MIRA 11:11)

1. Otdel sravnitel'noy fiziologii i patologii Instituta eksperimental'-noy meditsiny AMN SSSR.
(Nervous system--Fishes) (Brain) (Conditioned response)

KARANYAN, A.I.

Development of corticocerebellar functional correlations.
Zhur.vys.nerv.deiat. 9 no.3:436-444 My-Je '59. (MIRA 12:9)

1. Institute of Experimental Medicine, U.S.S.R. Academy of
Medical Sciences, Leningrad.
(CEREBRAL CORTEX - physiology)
(CEREBELLUM - physiology)

KARAMYAN, A.I.

Data on the physiology of the reticular formation from the view-point of the theory on the trophic adaptative role of the nervous system. Fiziol.zhur.SSSR 45 no.7:778-788 J1 '59. (MIRA 13:4)

1. From the Institute of Experimental Medicine, Leningrad.
(BRAIN STEM physiology)
(SYMPATHETIC NERVOUS SYSTEM physiology)

GINETSINSKIY, A.G., otv.red.; BIRYUKOV, D.A., red.; KARAMYAN, A.I., red.;
KASATKIN, N.I., red.; LEYBSON, L.G., red.; LICHKO, A.Ye., red.;
SHERSTOBITOV, O.Ye., red.izd-va; BOCHEVER, V.T., tekhn.red.

[Evolution of physiological functions; materials of the Second
Conference honoring the memory of Academician L.A.Orbeli, March
17-21, 1959] Evoliutsia fiziologicheskikh funktsii; materialy
vtorogo nauchnogo soveshchaniia posviashchennogo pamiati akademika
L.A.Orbeli, 17-21 marta 1959 g. Moskva, 1960. 230 p.

(MIRA 13:6)

1. Akademiya nauk SSSR. Institut evolyutsionnoy fiziologii.
2. Otdel sravnitel'noy fiziologii i patologii Instituta eksperi-
mental'noy meditsiny AMN SSSR (for Biryukov).
3. Laboratoriya
evolyutsii analizatorov Instituta evolyutsionnoy fiziologii im.
I.M.Sechenova AN SSSR (for Kasatkin).
4. Institut evolyutsionnoy
fiziologii im. I.M.Sechenova AN SSSR (for Leybson).

(PHYSIOLOGY)

KUPALOV, Petr Stepanovich, prof., otv.red.; GOLIKOV, M.V., red.; KASATKIN, N.I., red.; KARAMYAN, A.I., red.; LAPINA, I.A., red.; VASIL'YEVA, Z.A., red.; RULKOVA, M.S., tekhn.red.

[Problems in the physiology and pathology of the higher nervous activity; successes and prospects for development] Problemy fiziologii i patologii vysshei nervnoi deiatel'nosti; dostizheniya i perspektivy razvitiia. Pod obshchei red. P.S.Kupalova. Leningrad, Gos.isd-vo med.lit-ry Medgiz, Leningr.otd., 1960. 238 p. (MIRA 13:12)

1. Akademiya meditsinskikh nauk SSSR. Moscow. 2. Deystvitel'nyy chlen AMN SSSR (for Kupalov).
(NERVOUS SYSTEM)

KARAMYAN, A.I., doktor med.nauk

Symposium on the topic "Evolution of functions and metabolism of
the higher segments of the central nervous system." Vest.An SSSR
30 no.12:85-87 D '60. (MIRA 13:12)

(NERVOUS SYSTEM)

VINNIKOV, Yakov Abramovich; TITOVA, Lidiya Konstantinovna; KARAMYAN, A.I.,
prof., otv. red.; NATAROVA, N.V., red. izd-va; BOCHEVER, V.T.,
tekhn. red.

[Organ of Corti; histophysiology and histochemistry] Kortiev
organ; gistofiziologiya i gistokhimiya. Moskva, Izd-vo Akad.
nauk SSSR, 1961. 260 p. (MIRA 15:1)

(LABYRINTH (EAR))

KARAMYAN, A.I. (Leningrad)

Some scientific studies carried out in neurophysiological laboratories
in France. Fiziol. zhur. 48 no.1:111-114 Ja '62. (MIRA 15:2)
(FRANCE, NEUROLOGY)

3
KARAMYAN, A.I., KOSAREVA, A.A., GRIGORYAN, R.A., VESELKIN, N.P.

"Functional and morphological evolution of cortico-cerebellar interrelations."

Report submitted, but not presented at the 22nd International
Congress of Physiological Sciences.
Leiden, the Netherlands 10-17 Sep 1962

KARAMYAN, A.I.; BELEKHOVA, M.G.

Functional evolution of the nonspecific thalamo-cortical system. Zhur. vys. nerv. deiat. 13 no.5:904-916 S-0'63
(MIRA 16:11)

1. Sechenov Institute of Evolutionary Physiology, U.S.S.R.
Academy of Sciences, Leningrad.

KREPS, Ye.M., otv. red.; VERZHBINSKAYA, N.A., red.; VOSKRESENSKAYA, A.K., red.; ZHUKOV, Ye.K., red.; ZAGORUL'KO, T.M., red.; ITINA, N.A., red.; KARAMYAN, A.I., red.; KARMANOVA, I.G., red.; KONSTANTINOVA, N.S., red.; TITOVA, L.K., red.

[Evolution of the functions; physiological, biochemical and structural foundations of the evolution of the functions. Festschrift for the 80th anniversary of Academician L.A.Orbeli] Evoliutsiia funktsii; fiziologicheskie, biokhimicheskie i strukturnye osnovy evoliutsii funktsii. Sbornik posviashchennyi 80-letiiu akademika L.A.Orbeli. Moskva, Izd-vo "Nauka," 1964. 290 p. (MLRA 17:6)

1. Akademiya nauk SSSR. Institut evolyutsionnoy fiziologii.
2. Chlen-korrespondent AN SSSR (for Kreps).

KARAMYAN, A.I.; SERGEYEV, B.F.; SOLLERTINSKAYA, T.N.

Formation of temporary connections through the combination
of "indifferent" stimuli in reptiles. Zhur. vys. nerv. deiat.
14 no. 4:626-634 J1-Ag '64. (MIRA 17:12)

1. Laboratory of Comparative Physiology of the Central
Nervous System, Sechenov Institute of Evolutionary Physiology,
U.S.S.R. Academy of Sciences, Leningrad.

BIRYUKOV, Dmitriy Andreyevich, prof., otv. red.; GOLIKOV, N.V., red.;
ZIMKIN, N.V., red.; KARAMYAN, A.I., red.; KUPALOV, P.S., red.;
LAPINA, I.A., red.; VASIL'YEVA, Z.A., red.; KHARASH, G.A., tekhn.
red.

[Problems of the physiology and pathology of higher nervous activity]
Problemy fizologii i patologii vysshei nervnoi deiatel'nosti.
Pod obshchei red. D.A.Biriukova. Leningrad, Medgiz. No.2. 1963.
192 p. (MIRA 16:12)

1. Akademiya meditsinskikh nauk SSSR, Moscow. 2. Deystvitel'nyy
chlen AMN SSSR (for Biryukov).
(NERVOUS SYSTEM)

KARAMYAN, A.I.; SOLLERTINSKAYA, T.N.

Some characteristics in the development of hypothalamo-cerebral relationships in the phylogeny of vertebrates. Fiziol. zhur. 50 no.8:962-974 Ag '64. (MIRA 18:12)

1. Institut evolyutsionnoy fiziologii imeni Sechenova AN SSSR, Leningrad.

KARAMYAN, A.I.

Methodological foundations of evolutionary physiology, some of its advances and future development. Zhur. evol. biokhim. i fiziol. 1 no.1:104-112 Ja-F '65. (MIRA 18:6)

1. Institut evolyutsionnoy fiziologii i biokhimii im. I.M. Sechenova AN SSSR, Leningrad.

KREPS, Ye.M., otv. red.; VERZHBINSKAYA, N.A., red.; VINNIKOV, Ya.A., red.; VOSKRESENSKAYA, A.K., red.; ZHUKOV, Ye.K., red.; ZAGORUL'KO, T.M., red.; ITINA, N.A., red.; KARAMYAN, A.I., red.; KARMANOVA, I.G., red.; KONSTANTINOVA, M.S., red.; PLISETSKAYA, E.M., red.

[Functional evolution of the nervous system] Funktsional'naya evoliutsiia nervnoi sistemy. Moskva, Nauka, 1965. 189 p. (MIRA 19:1)

1. Akademiya nauk SSSR. Institut evolyutsionnoy fiziologii i biokhimi.

FLEROV, G.N.; POLIKANOV, S.M.; KARAMYAN, A.S. [deceased]; PASYUK, A.S.;
PARFANOVICH, D.M.; TARANTIN, N.I.; KARNAUKHOV, V.A.; DRUIN, V.A.;
VOLKOV, V.V.; SEMCHINOVA, A.M.; OGANESYAN, Yu.TS.; KHALIZEV, V.I.;
KHLEBNIKOV, G.I.; MYASOYEDOV, B.F.; GAVRILOV, K.A.

Experiments to produce element No. 102. Zhur. eksp. i teor. fiz.
38 no.1:82-94 Jan '60. (MIRA 14:9)

1. Sotrudniki Ob"edinennogo instituta yadernykh issledovaniy (for
Polikanov, Oganessian, Gavrilov). 2. Sotrudnik Instituta geokhimii
i analiticheskoy khimii AN SSSR (for Myasoyedov).
(Transuranium elements)

ACCESSION NR: AP4020334

S/0089/64/016/003/0252/0253

AUTHORS: Karamyan, A.S. (Deceased); Kuzeyev, B.I.; Kress, R.P.;
Silin, Yu. S.; Stukov, G.M.; Shchebolev, V.T.;
Yaritsy*na, I.A.

TITLE: Absolute determination of a number of neutrons emitted by
source, using the associated particle method

SOURCE: Atomnaya energiya, v. 16, no. 3, 1964, 252-253

TOPIC TAGS: absolute determination, absolute neutron determination,
associated particle method, alpha particle, emitted neutron, gra-
phite, neutron determination

ABSTRACT: The method of associated particles is based on a com-
parison of neutron flux from the source being studied with neutron
flux from the reaction $T(d, n) He^4$. Since one α -particle corres-
ponds to each outgoing neutron in this reaction, it is possible to
determine the number of emitted neutrons by the absolute counting
of α -particles. In a medium for which the moderation length is

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ACCESSION NR: AP4020334

less than the diffusion length, it is possible to find such spacing of thermal neutrons from source to detector where the density of thermal neutrons does not depend on the energy of neutrons emitted by the source and is determined only by its intensity. Graphite in the form of a sphere with a 4 m. diameter was used as such a medium. Three curves for 3 different sources are given in the figure in the Enclosure. The point of intersection of curves determines the radius of the efficiency constant for a given device. This distance is 82 cm. To find the number of neutrons being emitted by various sources, it is not necessary to measure the full curves of thermal neutron distribution in the graphite globe. It is sufficient to determine the number of detector readings in the spacing of the efficiency constant. Mean square error of method is about $\pm 1.4\%$. Orig. art. has: 2 figures.

ASSOCIATION: None

SUBMITTED: 18Apr63

DATE ACQ: 31Mar64

ENCL: 01

SUB CODE: NS, PH

NO REF SOV: 001

OTHER: 002

Card 2/3

ACCESSION NR: AP4020334

ENCLOSURE: 01

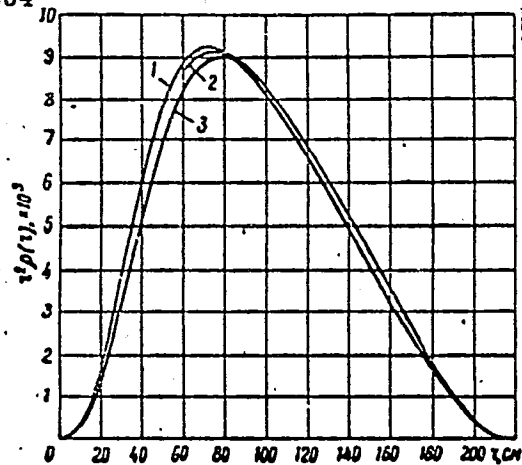


Fig. 1

Space distribution curves for thermal neutrons in graphite sphere:

- 1--for neutrons of Ra-Be source;
- 2 - for neutrons of Po-Be source;
- 3 - for neutrons obtained from $T(d,n)\text{He}^4$ reaction

Card 3/3

GVERDTSITELI, I. G.; KARAMYAN, A.T.; MENABDE, N.Ye.

Measurement of the diffusion coefficient of binary vapor-gas mixtures. Soob. AN Gruz. SSR 26 no.4:409-413 Ap '61.

(MIRA 14:8)

1. Fiziko-tekhnicheskiy institut AN Gruzinskoy SSR. Predstavleno chlenom-korrespondentom AN GruzSSR G.V.Tsitsishvili.
(Gases) (Diffusion)

S/020/63/149/001/014/023
B144/B186

AUTHORS: Amirkhanova, I. B., Borisov, A. V., Gverdtsiteli, I. G.,
Karamyan, A. T., Kuherov, R. Ya.

TITLE: Evaporation coefficients of liquid C_2H_5OH , BCl_3 , BF_3 , and
 CH_4

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 1, 1963,
114-116

TEXT: The evaporation coefficients were determined by measuring the pressure increase effected by evaporation of the substance in a closed system. The apparatus used consisted of an evaporation vessel with a screw stirrer and a counterpressure chamber, both put into a Dewar flask, and was calibrated on the basis of the evaporation coefficient of C_2H_5OH . After evacuation to 10^{-5} mm Hg, the apparatus was purged with the gas studied; then the substance was condensed. After establishing a pressure equilibrium, the pressure was quickly reduced with a syphon and the subsequent pressure increase due to the evaporation of the liquid

Card 1/2

Evaporation coefficients of liquid ...

S/020/63/149/001/014/023
B144/B186

studied was recorded. With the same apparatus the condensation coefficients of liquids can be measured if the initial pressure in the evaporating vessel is adjusted so that it exceeds the equilibrium pressure. It is asserted that this was done for the first time. The evaporation and condensation coefficients were calculated from the measurements using the formula of L. Bogdandy et al. (Zs. Elektrochem. 59, 460 (1955)) and compared in the case of C_2H_5OH with previous results. For BF_3 and BCl_3 the evaporation and condensation coefficients were almost consistent. Further theoretical and experimental research should clear up why the values found are so low. There are 2 figures and 1 table.

PRESENTED: October 27, 1962, by N. M. Zhavoronkov, Academician

SUBMITTED: June 27, 1962

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| L 4450-66 | EWP(e)/EWT(m)/EPF(c)/EWP(i)/EWP(t)/EWP(b) | DIAAP/IJP(c) | JD/JH/DM |
| ACC NR: AP5028435 | SOURCE CODE: UR/0089/65/019/001/0020/0024 | | |
| AUTHOR: <u>Amirkhanova, I. B.</u> ; <u>Borisov, A. V.</u> ; <u>Gverdtseteli, I. G.</u> ; <u>Karamyan, A. T.</u> | | | |
| ORG: none | | | |
| TITLE: Relative difference of vapor pressure in sup 11 BF sub 3 - sup 10 BF sub 3 | | | |
| SOURCE: Atomnaya energiya, v. 19, no. 1, 1965, 20-24 | | | |
| TOPIC TAGS: differential calculus, vapor pressure, difference method, solution property, <u>radioisotope</u> , <u>boron</u> , <u>fluoride</u> , radiation chemistry | | | |
| ABSTRACT: The relative differences of vapor pressures of the isotopic molecules ¹¹ BF ₃ and ¹⁰ BF ₃ at temperatures of 147 to 247.7°K were measured by a differential method. The coefficient of enrichment is reduced from 20×10^{-3} (147.0°K) to 1.1×10^{-3} (247.7°K). Within the limits of error of the experiment (2 to 4%), the liquids of the ¹¹ BF ₃ - ¹⁰ BF ₃ solutions are ideal. In the measured interval of temperatures corrections to the coefficient of enrichment associated with the nonideality of the gas phase are calculated. Data obtained in the presence of other parameters of the process of fractionation of BF ₃ (the height of the theoretical plate, the throughput of the adapter, etc.) allow the efficiency of the process of separation of ¹¹ BF ₃ and ¹⁰ BF ₃ at various pressures to be calculated. <u>G. L. Kakuliya</u> participated in taking the measurements. The mass spectrometer measurements were made by <u>L. I. Chernovaya</u> under the direction of <u>K. G. Ordzhonikidze</u> . The authors express thanks to <u>Yu. V. Nikolayev</u> . | | | |
| Cord 1/2 | | UDC: 621.039.332/546.27 | |

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V. V. Boyko, and N. Ye. Menabde for participation in discussion of the work. Orig. art.
has: 4 figures, 4 formulas. NA

SUB CODE: NP, TD, GC, MA / SUBM DATE: 01Jul64 / ORIG REF: 008 / OTH REF: 003

PC
Card 2/2

AMIRKHANOVA, I.B.; BORISOV, A.V.; GVERDTSITELI, I.G.; KARAMYAN, A.T.

Relative differences of pressures of $B^{11}F_3$ - $B^{10}F_3$ vapors. Atom.
energ. 19 no.1:20-24 J1 '65. (MIRA 18:7)

ACC NR: AP7001562

SOURCE CODE: UR/0251/66/044/003/0585/0588

AUTHOR: Karamyan, A. T.; Kaminskiy, V. A.; Bochikashvili, T. P.

ORG: none

TITLE: Physical properties of the complex compound $(\text{CH}_3)_2\text{O} \cdot \text{BF}_3$

SOURCE: AN GruzSSR. Soobshcheniya, v. 44, no. 3, 1966, 585-588

TOPIC TAGS: boron compound, ester, chemical separation, ^{solid} physical property

ABSTRACT: The complex compound of boron trifluoride with dimethyl ester is widely used in the separation of boron isotopes, but the published literature on the physical properties of this compound is insufficient and sometimes even contradictory. To fill this gap the authors carried out a detailed investigation of the properties of this compound. Since during the separation process the complex compound $(\text{CH}_3)_2\text{O} \cdot \text{BF}_3$ always is present in a mixture with the product of its thermal decomposition -- the complex compound $\text{c}(\text{CH}_3\text{O})_3\text{B} \cdot 2\text{BF}_3$, the physical parameters of this mixture were also investigated as a function of the concentration of its components. Density was measured with the aid of a pycnometer as a function of temperature

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